

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050420\  
 Data File : VX016034.D  
 Acq On : 04 May 2020 13:33  
 Operator : JC/SP  
 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC150

Manual Integrations  
 APPROVED

MMDadoda  
 5/5/2020 11:35:26 AM

Quant Time: May 04 13:54:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 13:19:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 306871   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 496663   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 462159   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 244422   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.04   | 65  | 602721   | 128.90 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 257.80% |      |
| 35) Dibromofluoromethane  | 5.47   | 113 | 475947   | 135.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 271.12% |      |
| 50) Toluene-d8            | 8.70   | 98  | 1819473  | 139.07 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 278.14% |      |
| 62) 4-Bromofluorobenzene  | 11.12  | 95  | 740801   | 157.75 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 315.50% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 485904  | 150.290 | ug/l | 100    |
| 3) Chloromethane              | 1.31 | 50  | 527790  | 136.477 | ug/l | 100    |
| 4) Vinyl Chloride             | 1.39 | 62  | 575973  | 141.393 | ug/l | 100    |
| 5) Bromomethane               | 1.62 | 94  | 267509  | 108.278 | ug/l | 97     |
| 6) Chloroethane               | 1.69 | 64  | 295638  | 115.798 | ug/l | 98     |
| 7) Trichlorofluoromethane     | 1.90 | 101 | 768846  | 144.343 | ug/l | 98     |
| 8) Diethyl Ether              | 2.17 | 74  | 321147  | 142.408 | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 448797  | 146.419 | ug/l | 99     |
| 10) Methyl Iodide             | 2.48 | 142 | 643131  | 164.175 | ug/l | 100    |
| 11) Tert butyl alcohol        | 3.04 | 59  | 787540  | 787.677 | ug/l | 100    |
| 12) 1,1-Dichloroethene        | 2.35 | 96  | 466238  | 145.167 | ug/l | 99     |
| 13) Acrolein                  | 2.28 | 56  | 519630  | 847.929 | ug/l | 100    |
| 14) Allyl chloride            | 2.70 | 41  | 857956  | 146.266 | ug/l | 99     |
| 15) Acrylonitrile             | 3.12 | 53  | 1575324 | 746.138 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 1312037 | 724.838 | ug/l | 98     |
| 17) Carbon Disulfide          | 2.54 | 76  | 1422761 | 123.921 | ug/l | 100    |
| 18) Methyl Acetate            | 2.75 | 43  | 644548  | 144.527 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.17 | 73  | 1642874 | 149.999 | ug/l | 100    |
| 20) Methylene Chloride        | 2.83 | 84  | 518434  | 135.669 | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.14 | 96  | 509565  | 141.179 | ug/l | 100    |
| 22) Diisopropyl ether         | 3.83 | 45  | 1618742 | 146.182 | ug/l | 91     |
| 23) Vinyl Acetate             | 3.79 | 43  | 7325253 | 764.196 | ug/l | 99     |
| 24) 1,1-Dichloroethane        | 3.67 | 63  | 914966  | 148.155 | ug/l | 100    |
| 25) 2-Butanone                | 4.65 | 43  | 2210226 | 772.851 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.55 | 77  | 805768  | 141.003 | ug/l | 100    |
| 27) cis-1,2-Dichloroethene    | 4.56 | 96  | 579793  | 149.244 | ug/l | 98     |
| 28) Bromochloromethane        | 4.99 | 49  | 427579  | 152.824 | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.10 | 42  | 1449169 | 760.965 | ug/l | 100    |
| 30) Chloroform                | 5.18 | 83  | 906002  | 147.223 | ug/l | 99     |
| 31) Cyclohexane               | 5.55 | 56  | 841964  | 146.112 | ug/l | 99     |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 824471  | 147.570 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.77 | 75  | 709158  | 143.049 | ug/l | 99     |
| 37) Ethyl Acetate             | 4.81 | 43  | 846202  | 149.888 | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.76 | 117 | 735772  | 147.688 | ug/l | 95     |

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 Sample : VSTDICC150  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 VSTDICC150

Manual Integrations  
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 5/5/2020 11:35:26 AM

Quant Time: May 04 13:54:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 13:19:56 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 7.44  | 83   | 871563   | 147.420  | ug/l   | 99       |
| 40) Benzene                    | 6.12  | 78   | 2069174  | 142.614  | ug/l   | 100      |
| 41) Methacrylonitrile          | 5.01  | 41   | 453641   | 148.787  | ug/l   | 99       |
| 42) 1,2-Dichloroethane         | 6.17  | 62   | 735998   | 140.425  | ug/l   | 100      |
| 43) Isopropyl Acetate          | 6.42  | 43   | 1359876  | 151.374  | ug/l   | 100      |
| 44) Trichloroethene            | 7.19  | 130  | 661897   | 123.370  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 7.49  | 63   | 532046   | 146.026  | ug/l   | 99       |
| 46) Dibromomethane             | 7.64  | 93   | 361173   | 145.779  | ug/l   | 100      |
| 47) Bromodichloromethane       | 7.88  | 83   | 757349   | 152.251  | ug/l   | 99       |
| 48) Methyl methacrylate        | 7.75  | 41   | 655675   | 155.111  | ug/l   | 99       |
| 49) 1,4-Dioxane                | 7.72  | 88   | 310397   | 3035.967 | ug/l   | 100      |
| 51) 4-Methyl-2-Pentanone       | 8.63  | 43   | 4199130  | 767.750  | ug/l   | 98       |
| 52) Toluene                    | 8.77  | 92   | 1315974  | 147.215  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.02  | 75   | 900355   | 151.272  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene    | 8.42  | 75   | 925349   | 147.975  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane      | 9.20  | 97   | 528029   | 151.162  | ug/l   | 99       |
| 56) Ethyl methacrylate         | 9.16  | 69   | 920357   | 166.533  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 9.35  | 76   | 901721   | 146.473  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether  | 8.30  | 63   | 2349883  | 780.561  | ug/l   | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 3343070  | 779.957  | ug/l   | 98       |
| 60) Dibromochloromethane       | 9.57  | 129  | 609505   | 161.938  | ug/l   | 100      |
| 61) 1,2-Dibromoethane          | 9.66  | 107  | 573596   | 151.855  | ug/l   | 100      |
| 64) Tetrachloroethene          | 9.32  | 164  | 784916   | 133.739  | ug/l   | 94       |
| 65) Chlorobenzene              | 10.12 | 112  | 1420909  | 144.999  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 537716   | 150.821  | ug/l   | 99       |
| 67) Ethyl Benzene              | 10.24 | 91   | 2533463  | 145.330  | ug/l   | 100      |
| 68) m/p-Xylenes                | 10.35 | 106  | 1937732  | 299.291  | ug/l   | 97       |
| 69) o-Xylene                   | 10.68 | 106  | 947179   | 152.861  | ug/l   | 98       |
| 70) Styrene                    | 10.70 | 104  | 1663598  | 161.270  | ug/l   | 100      |
| 71) Bromoform                  | 10.84 | 173  | 495207   | 178.498  | ug/l # | 100      |
| 73) Isopropylbenzene           | 11.01 | 105  | 2490602  | 137.192  | ug/l   | 99       |
| 74) N-amyl acetate             | 10.88 | 43   | 1231417  | 148.313  | ug/l   | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 637374   | 240.540  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 11.28 | 75   | 764267m  | 107.032  | ug/l   |          |
| 77) Bromobenzene               | 11.24 | 156  | 650805   | 138.724  | ug/l   | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 2929463  | 139.088  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 11.41 | 91   | 1730422  | 138.910  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 2179347  | 144.175  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 365121   | 159.794  | ug/l   | 97       |
| 82) 4-Chlorotoluene            | 11.50 | 91   | 2082818  | 142.440  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1896600  | 145.690  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 2216581  | 144.731  | ug/l   | 99       |
| 85) sec-Butylbenzene           | 11.93 | 105  | 2533414  | 143.471  | ug/l   | 99       |
| 86) p-Isopropyltoluene         | 12.05 | 119  | 2377029  | 145.527  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene        | 12.01 | 146  | 1167965  | 138.541  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 1178793  | 139.656  | ug/l   | 99       |
| 89) n-Butylbenzene             | 12.37 | 91   | 2207838  | 148.549  | ug/l   | 100      |
| 90) Hexachloroethane           | 12.58 | 117  | 442695   | 163.089  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene        | 12.38 | 146  | 1133754  | 140.178  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 220425   | 150.924  | ug/l   | 98       |

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Sample : VSTDICC150  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC150

Manual Integrations  
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MMDadoda  
5/5/2020 11:35:26 AM

Quant Time: May 04 13:54:53 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 13:19:56 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 13.63 | 180  | 855491   | 143.433 | ug/l  | 99       |
| 94) Hexachlorobutadiene    | 13.77 | 225  | 382949   | 136.698 | ug/l  | 99       |
| 95) Naphthalene            | 13.82 | 128  | 2783482  | 144.951 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 824769   | 141.326 | ug/l  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

